

**Amendments to the Specification:**

In paragraph [0025], line 10, please add “, OP Amp,” before “for”.

In paragraph [0025], line 11, please add “, a voltage divider having two resistors,  $R_1$  and  $R_2$ , for offering an input voltage to the operational amplifier, and a reference voltage,  $V_{ref}$ , for offering a reference voltage to the operational amplifier” after “generator”.

In paragraph [0025], line 33, please add “The ballast circuit 32 further includes two bulk capacitors,  $C_1$  and  $C_2$ , coupled to the half-bridge circuit of the inverter 36, and a resonant capacitor,  $C_3$ , coupled to the inductor 38 to form the resonant LC circuit.” before “Another”.